

# THE EASTERN IOWA DXER

SUMMER 1988

CLUB NEWSLETTER OF THE EASTERN IOWA DX ASSOCIATION

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## CLUB OFFICERS

President: KJØH John Schwandke

V.President: WØWP Tom Lindgren

Sec/Treasurer: NBØH Jack Muckler

Awards & Contest Chairman: NUØP

Newsletter assistant: W4NIM Bob Hill

## Editor's NOTE

The EIDX Newsletter will be published and distributed at least 10 days prior to EIDX club meetings. The paper is a good way for you, an active member in the organization, to express your views and share your ideas with fellow members. I will do everything within my power to make the newspaper interesting and accurate.

de WØWP



## SUMMER MEETING

The Eastern Iowa Dx Association's next meeting will be held on the first day of the Cedar Valley Amateur Club's Annual Summer Hamfest, August 13th at 2PM. The meeting room in the IBEW Hall will be used. Note this is a new location for the 2 day hamfest. This will be an open meeting for guests from the hamfest to attend (bring a friend). A short business meeting is planned with a Dx-pedition video or slide show to follow.

EIDXA MINUTES APRIL 15, 1988

President John, KJØH, called the meeting to order at 7:35 PM in the Muscatine Community College Board room Muscatine Iowa. John thanked WØBUB, one of the directors of the college, for making the Board room available for the Spring meeting.

KØIIR, Clark, introduced his guest Lee, WØBX, a seasoned amateur radio operator since 1926. Lee has been active on both Phone and CW. His 1st license, brought for display, was most interesting especially the restrictions imposed at that time.

John, NUØG, one of the guests from the Burlington/Davenport area, gave an interesting description of their field day set-up and related their plans for the '88 FIELD DAY outing.

Dave Moore, WEØB, a guest from the Clinton area, introduced himself and retraced his license history beginning with his 1956 DL4 to HL9 to W9 and now back to Iowa. Dave is restarting his DXCC from his Iowa QTH.

WDØAWL, Terry, introduced his guest Jim, WDØHMA, a big VHF gun from the Ainsworth area.

Guests for the evening were--WØBX (Lee McKee), WDØHMA (Jim Snead), WEØB (Larry Newby), WBØUKZ (Terry Parl), WEØU (George Gruenther), NØICI (Grant Kesselring-KØJGH's son), WB9UFB (Ken Martin), KAØKNT (Kirby Heffmann), WEØB (Dave Moore), NUØG (John Mayfield), and WAØYGX (Andrew Hoth).

Members present were--KJØH, NBØH, WØWP, NUØP, KØVZR, KØGVB, KØIIR, WDØAWL, WB8ZRL, KEØY, KØRW, KØJGH, KØGT, ABØM, WEØM, WØIZ, NCØO, KFØZ, and KCØQ. (A great turnout 11 guests and 19 members.)

Tom, NCØO, reported that an average of 8 to 12 checked into the Sunday evening nets. He also noted that the net will continue to be held throughout the summer, Sunday's as usual.

Contest committee chairman Steve, NUØP, distributed the special EIDXA Golden Jubilee DXCC stickers. WØIZ (261 countries), WØWP (233), ABØM (218), KØGT (107), KØIIR (130), W4NIM (145), NCØO (121), KCØQ (125), KJØH (130), and KEØY (??).

Steve also announced that WØIZ was the winner of the QRP award with 64,575 points and that WEØM had been appointed Public Info Officer for the Section at a remuneration schedule of \$0.00 per decade.

W4NIM was not available to report on any progress regarding the EIDXA video project.

KJØH reminded everyone to put together 3 slides of their QTH for purposes of display at a subsequent meeting. The pictures maybe of your equipment, antennas, or XYLS. To implement this project a committee was established as follows:

KJØH--Chairman  
WØWP--Tom Lindgren  
NCØO--Tom Hise  
KØRW--John Lenahan  
KØVZR--Tom White

Business Meeting:

NBØH moved that Ron Borkgren be accepted into the EIDXA as a full member--seconded by WØIZ Motion carried.

KØIIR moved that the minutes of the January meeting be accepted as printed in the Newsletter--seconded by KØJGH motion carried. NBØH moved that the



treasurer's report be accepted as printed--seconded by WD0AWL motion carried.

#### New Business:

W0EJ, Iowa Section Manager, was not available (ill with the flu)--no report given.

W0SR, DXAC advisor, unable to make the meeting due to business conflicts.  
W0IZ, Dale, reported on current and up-coming Dx operations and methods of obtaining overseas QSLs. W0WP pointed out that European postal rates for Airmail is in 1/4 ounce units.

An open discussion regarding the type of Summer meeting desired was held.  
Conclusion--no dinner meeting just a regular style session.

W0WP reported that there is available a new DXCC for 10, 40, and 80 meters. He volunteered to keep a want list together for the club and set up the "one ringer" system for those interested.

W0WP again raised the question of club jackets. The club was polled for a consensus--obtaining none President John agreed to bring a sample to the next meeting.

K0VZR, Tom, reported that during the '88 Olympics special calls will be established for HL9 area and to send contacts through him to obtain a certificate.

#### Program:

The program for the evening consisted of videos--XF4DX DX expedition, a 2nd special event video arranged for our viewing by K0RW entitled "Beloved Husband Of" followed by a short film clip on Safety entitled "Antenna Erections" Staring Laurel & Hardy.

Motion to adjourn by WD0AWL seconded by KF0Z carried. Meeting adjourned 9:03 PM.

#### Summary:

It was a fun night enjoyed by all. 11 Guest and 19 members were present. Refreshments arranged for by our extravagant President, John, consisted of finger sandwiches, coffee and soda.

NE0H Sec/Treas

#### TREASURES REPORT

General Fund	Repeater Fund
Carried Fwd \$458.22	\$161.00
Coffee Coll 15.11	
Dues Coll 9.00	
N4RR dues 2yr 10.00	
Dividends 2.62	
-----	-----
Sub total \$494.95	\$161.00
Disbur'mts -35.03	
-----	-----
Cur Bal \$459.92	\$161.00

de NE0H Sec/Treasurer

# EIDXA membership list (JUNE 1988)

Cell Status pd name

KUSA	FULL	Y	Nelson Moyer 28 Ealing Dr. Iowa City, Ia 52240 319-351-8775 home, 319-353-5990 wrk
KDAL	FULL	Y	Al Culbert 618 First Ave. Charles City, Ia 50616 515-228-1443 home, 515-257-2245 wrk
WDHML	FULL	Y	Terry Cellman 511 Park Ainsworth, Ia 52201 319-657-3601 home, 319-648-2891 wrk
KZOC	FULL	Y	Jim Bohnsack 1169 Rainbow Dr. Waterloo, Ia 50701 319-233-7189 home
WDEJ	FULL	Y	Wade Walstrom 7431 Macon Drive NE Cedar Rapids, Ia 52401 319-393-8982 home, 319-395-xxxx wrk, 124-311 as
WEDM	ASS.	Y	Tom Gordon 6904 Brentwood Dr. NE Cedar Rapids, Ia 52402 319-373-8757 home, 319-398-7657 wrk
K0GT	FULL	Y	Gary Toomsen 2730 Tower Dr. Cedar Rapids, Ia 52401 319-395-9329 home, 137-122as
K0GVB	FULL	Y	Gary Ernst RR 2 West Branch, Ia 52358 319-643-2287
KF0H	FULL	Y	Jim Harvey 819 N. Main St. Goldfield, Ia 50542 515-825-3323
KJ0H	FULL	Y	John Schwandke 1515 Lucas St. Muscatine, Ia 52761 319-657-4325
NB0H	FULL	Y	Jack Muckler 2084 Eastern Blvd. SE Cedar Rapids, Ia 52403 319-362-3462 home
N0HNJ	ASS.	Y	David Corio 30 Leisure Blvd. NE Cedar Rapids, Ia 52402 319-395-7973 home, 319-395-0462 wrk
K0IR	FULL	Y	Clark Pantel 1610 Hershey Ave. Muscatine, Ia 52761 319-263-9150 home, 319-263-6141 wrk
K0INR	FULL	Y	Tom Taylor RR 1 Shell Rock, Ia 50670 319-885-4400 home, 319-236-1500 wrk
W0IZ	FULL	Y	Dale Repp 1610 Texas Ave. NE Cedar Rapids, Ia 52402 319-393-6724
K0JGH	FULL	Y	Glen Kesselring RR #7 Box 160 Ottumwa, Ia 52501 515-934-5320
NNFL	FULL	Y	Ron Borkgren 1106 East 2nd St. Anamosa, Ia 52205 319-462-4113 home
AB0H	FULL	Y	Vern Lang 110 E. 2nd St. Muscatine, Ia 52761 319-263-2697
W0KJW	FULL	Y	Joe Finkstein 2210 Empire St. Marion, Ia. 52302 319-377-6573 home, 319-395-2294 107-150 as
NK0N	FULL	Y	Orville Duecker 226 Southcrest Waterloo, Ia 50702 319-296-2390 home, 319-233-3569 wrk
W0NB	FULL	Y	Jim Livengood R.R. 1, Ferre's Lane Burlington, Ia 52601 319-752-9310 home, 319-752-2701 wrk
W4NIM	FULL	Y	Bob Hill 2510 White Eagle Trail SE Cedar Rapids, Ia 52403 319-366-3975
NC00	FULL	Y	Tom Hise PO Box 104 Shellsburg, Ia 52332 319-436-7706 home, 319-395-XXXX wrk 153-264 as
N00P	FULL	Y	Steve White 5820 Sanden Rd. NE Cedar Rapids, Ia 52401 319-377-1092 home, 319-395-XXXX wrk, 124-313 as
W0PLS	ASS.	Y	Fred Young 5806 Timber Creek Rd. Cedar Rapids, Ia 52401 319-393-0429 137-124 as
W0PPF	FULL	Y	George Carsner 411 Terrace Rd. Iowa City, Ia 52240 319-338-1601 home, 319-354-9200 wrk
KC0Q	FULL	Y	Jeff Russell 2125 Linmar Dr. NE Cedar Rapids, Ia 52402 319-363-4139 home, 319-395-4664 wrk, 124-211 as
KK0R	FULL	Y	Bob Tillman 1257 Deloris Dr. Waterloo, Ia 50701 319-232-8223 home, 319-291-7413 wrk
M4RR	FULL	Y	Roger Hoffman 17215 Timber Drive Sterling, Ill 61081 815-625-6647
K0RN	FULL	Y	John Lenahan 923 W. 9th St. Burlington, Ia 52601 515-753-6883 home, 515-683-5203 wrk
M09M	FULL	Y	Steve Miller Route 6 Box 100 Ottumwa, Ia 52501 515-684-4753
W0SML	FULL	Y	Doug Byal 4601 Northwood Dr. NE Cedar Rapids, Ia 52402 319-393-2974
W09R	FULL	Y	Jim Spencer 3712 Tanager Dr. NE Cedar Rapids, Ia 52402 319-393-7353 home, 319-395-2305 wrk 124-115 as
K00BY	FULL	Y	Rick Cordle 515 20th St. SE Mason City, Iowa 50401 515-424-0493 home
W0UZ	FULL	Y	John Nelson 3109 Terry Dr. SE Cedar Rapids, Ia 52403 319-365-4432 home, 319-395-2742 wrk 153-160 as
NY0V	FULL	Y	Tom Vinson 10211 Hall Road NE Cedar Rapids, Ia 52401 319-393-8087 home, 319-395-xxxx 120-105 as
K0VM	ASS.	Y	Al Groff 1446 Council St. NE Cedar Rapids, Ia 52402 319-393-8134 home, 319-395-4666 wrk, 124-211 as
W0VX	FULL	Y	Dave Jaksa 24675 Paige Circle Laguna Hills, Calif 92653 714-853-4469 home, 714-858-2063 wrk
K0VZR	FULL	Y	Tom White RR02 Jesup, Ia 50648 319-827-6738 home, 319-334-7166 wrk
N60W	FULL	Y	Keith Erickson 1810 Hillside Dr. NW Cedar Rapids, Ia 52405 319-396-8510 home, 319-398-3551 wrk
W10W	ASS.	Y	Dan Veerhusen 1601 48th St. NE Cedar Rapids, Ia 52402 319-393-6726 home 319-395-4874 wrk
W0WP	FULL	Y	Tom Lindgren 1260 13th Ave. Marion, Iowa 52302 319-377-4279 home, 319-395-1953 wrk 107-110 as
KE0Y	FULL	Y	Tom Kramer 905 LeRoy Muscatine, Ia 52761 319-264-3259
AG0Z	FULL	Y	Bill Delaney 2810 Garden Ave. Cedar Falls, Ia 50613 319-277-5150 home, 319-236-8856 wrk
KF0Z	FULL	Y	Jan Clute 320 College Blvd. Mount Vernon, Ia 52314 319-895-6435 home, 319-927-2143 wrk
W0BZRL	FULL	Y	Tom Vavra 1620 Walker St. Ely, Ia 52227 319-848-4330 home

The following propagation informatin was forwarded to the NEWSLETTER from K0GVB, thanks Gary!

## PROPAGATION

I. A look at longitude, latitude, and time zones.

II. General sources of propagation materials:

ARRL propagation charts monthly in QST.

Beacons.

WWV (18 minutes after each hour)

ARRL Bulletins.

DX club bulletins.

Band listening.

III. WWV Information (at 18 minutes after the hour)

Solar Flux: A measure of the sun's radiation at 2800 MHZ. Readings above 80 indicate possible 10-15 meter activity.

A Index: Taken once every twenty four hours. (Scale 0-400) A quiet field (10 or less) best for good propagation. (Low wave enery absorption)

K Index: Given for a six hour period. (more "real-time" than "A" index)

Rising trend indicates poor HF propagation; a value of 4 or greater means Aurora on VHF.

Solar activity: Relates to very fast changing conditions and is a negative on the ham bands.

IV. Peek at a propagation chart:

1. MUF: On 50% of the days in the predicted period, the amateur band that is open will be just below the MUF curve. (Maximum Usable Frequency)

2. OTC: (Optimum traffic curve) Ionosperic support on 90% or more of days during the month.

3. HPF: (Highest possible frequency) Frequency which will be propagated only 10% of the time.

V. Some factors that strongly influence propagation:

1. Season of the year

2. Level of the solar activity

3. Time of sunrise and sunset at both ends of the circuit...as well as amount of daylight and darkness along signal path. Solar activity must be predicted some seventy days in advance for publication ...so we get sort of a median value.

VI. Super DX edge:

0. peak at display

1. go to display

2. Identify locations on map

3. Load Curve

4. Shift Curve Position

5. Rotate the Earth

6. Solve sunrise/sunset times

7. Determine MUF

8. Great Circle Bearings



Tom, WB8ZRL, has been very active watching the solar numbers climb keeping almost hourly tabs on this new cycle's progress. With a newly installed tribander on his Ely acreage, Tom is looking forward to plenty of low band DX activity this Fall season.

Steve, NU8P, should be settled in his new acreage QTH by press time. When his new XYL, Mary Kay, lets him rest from all the yard work associated with the new home, Steve will be working on the antenna farm. It is worth noting that this new QTH of Steve's is on top of a hill not in the bottom.

NS8H, Jack, is enjoying his retirement mixing DXing with his golfing, fishing, exercising and traveling. He has been field testing the new special "voice box" designed by our now famous EIDXer KC8D, OM Jeffery! The slick digital recorder could be just the key to an "enjoyable" yelling contest (SSB).

K8VZR, Tom, and his brother Cal, stationed in Korea are maintaining weekly skeds without the neighbors pounding on the door. Tom seems to be enjoying the country hamming if not necessarily all the yard work associated with it. We are all looking for big signals on the low bands from these country hams!

KC8D, Tom, has a new vertical system installed. Tom also hosted the QRP EIDXA Field Day outing again this year. The word is the battery powered 5 watt station had a very good score with conditions being called "not as good" as last year.

Dan, NX8W, has his homebrew amplifier on the air. Dan purchased 4 new 811As at Dayton this year and reports that the new bottles are made in the USSR!

It has been quiet from the Burlington area. I guess K8RW, John, and his friends are making another "video" to show the club! (keep it clean guys!)

Dave, W8VX, will be moving to the Dallas area from his California QTH. At least he'll be in the same time zone and hopefully be sporting a high tower with one of those BIG Texas beams! Judy, W8IDR, Dave's XYL will surely keep the coffee warm in the ham shack as the sunspots heat up!

Doug, W8SML, promises to become active again as he gets settled in his new QTH. The North East side of Cedar Rapids will have more energy radiated during contest weekends than Duane Arnold would radiate with a cracked reactor tank! NU8P, K8GT, W8SML, W8HUP, NY8V, W8EJ, W8EAM, and KC8XK could all have eyeball qsos together by climbing their individual towers and using megaphones!

President K8WH, John, is busy with his new job with very little time for radio. Congratulations to John on his nifty CQ magazine article (first published in this rag!) Thanks again too for the swell Spring meeting you so neatly organized John!

W8SR, Jim was recently vigorously pursuing the 4J1 operation by Marti Lane and associates. Jim doubts that the DXAC would vote for this one for new country status but believes in the MFML (workem' first worry later) philosophy of DXing! Jim may be looking for a very large "goose" gun if the friendly electric company doesn't soon quiet those darn' buzzing power lines.

K8GT, Gary, has been reporting fair to good conditions on 6 meters. Is Gary the only one in the EIDXA active on that band?

Bob, W4NIM, has been busy getting his house fixed up with his young Bobby home from military school this summer. OM Bob is planning a around the world sailing adventure in the foreseeable future! You need a crew Bob?

The highband DXers have been watching the solar indices closely this summer to catch those elusive E skip opening on 2 meter SSB and CW. W8IZ, Dale, believe it or not, has a great total on the VUCC list too. He must have an HF phone link in that left hearing aid and a VHF model in the other, how else could one catch all those openings and still monitor the repeater?

KF8Z, Jan, has a new TS140S and just "loves" it! A pleasant surprise to hear you on HF so often Jan. Did you know that Jan is such a wizz on the keyboard that he can run an RTTY buffer dry before he turns it over to the other guy (60 WPM live time)? Unreal Jan!

K8GVB, Gary, kindly filled in for me on the Dayton trip this year (I ended up sick). Gary and Patti have been quiet from West Branch as of late, they must be planting more aluminum trees or copper fences down there?

Roger Hoffman, N4RR, reports it is "Damn" hard to keep a little 48 meter beam turning. His 3 element wide space version has been stripping out those 3/4 inch shear pins like butter and the subsequent windmilling is hard on the cables also. Roger is planning on erecting his Rhone 33 tower in the back yard to distribute some of those antennas the 120 foot self supporter is now handling!

It was my pleasure to meet many new DXers down in Muscatine. Hopefully there are some new EIDXers among those fine folks!

By  
Jimmy  
Hatto



**America's Premier Weekly Amateur Radio Publication**

# The DX Bulletin

April Fools Day, 1988

## The GDO and VOM - Great -But Don't Overlook The XYL

Every ham is familiar with a few of the more common tools of the trade such as the VOM and the GDO. But I often wonder how many realize what an invaluable, but often overlooked accessory the XYL could be....

Even though she may not have a ticket, used properly she may fill the void in the shack and make your operating more pleasurable.

As a for instance, let me relate this lovely incident that occurred at this QTH. Perhaps it will bring a lump to your throat. A definition of love and true affection could not be more dramatic, and if it brings a tear to your eye - it just proves the point.

It was a typical Wednesday evening with the sweet little thing in the living room, eyes glued to the Wednesday night movie on the mahogany knot hole. Meanwhile in the shack I tuned for some rare DX that was coming through on twenty meters. Suddenly to my horror the rotor quit on me and naturally in a direction away from the DX. The beam refused to budge.

I rushed upstairs and explained my plight to the XYL, but she refused to leave the movie. Later during a commercial she agreed to help. Almost the same instant a flash of lightening and a clap of thunder rattled the house.

Undaunted, she donned her lineman's belt, and at that precise moment - I was so proud of her - as she began her ascent up the 4 inch pipe mast. After all she weighs only one hundred pounds, and lineman's belt with cutters, pliers, hammer, small crow bar, twenty five foot roll of R8BU and a few other things she needed, weighed forty two pounds.

I watched her as she shinnied up the pipe, and I could see her quite well during the lightening flashes, and between rolls of thunder I could hear the rattle of tools as they dangled from the belt.

She yelled to me to turn on the flashlight and shine it at the top. She really didn't need the light to find the top, because the only way to the top was up. Anyway she knew the way to the top as she had climbed it many times before. Apparently she was not aware of the price of flashlight batteries.

It had began to rain quite hard, and I yelled at her to get a move on up there because I was getting wet. She had finally reached the top and yelled down for some light. I told her the lightening was so frequent that she could work during the flashes. I told her for being so careless, and since I was getting wet, I was going into the house and dry off. As a nice gesture I watched the end of the movie so I could tell her how it ended as I was sure she would want to know.

When she came in the house she refused to talk to me just because I had yelled at her while she was up on the mast. She wouldn't even listen when I tried to tell her that the movie ended with John and Marcia getting a divorce because John was very mean and unreasonable.

What I originally started out to say is simply that the XYL can be a valuable addition to the shack, although at times they can be a bit difficult.

Since she is still a bit miffed, please don't print my name or call. Better yet, I wish this would self destruct after you read it.





CLARENCE E. FILLEY - W7KE  
1109 South 2nd Street  
Hamilton, MT 59840

### THE CHARGE OF THE LIGHTNING SENDER

Up from his chair the other day,  
A Plug arose in some dismay,  
To answer a call from a distant town,  
On a wire difficult to hold down.

The office was warm, the hour was late  
As that sender started at rapid rate,  
And soon he was going like the wind  
With the Plug about fifteen words behind.

And faster and faster the dashes rolled,  
And the dots like a torrent uncontrolled,  
'Till through that office seemed to pour  
Some sixty words a minute or more!

And there in the dim and waning light--  
Driving his pen with all his might--  
With lips compressed, to his desk inclined,  
Sat the Plug, twenty words behind.

Then swift from his pen the hot words flowed  
Like chicken tracks in a muddy road;  
And as he thought of his terrible need,  
He scratched away at his utmost speed!

And soon on his face came a pleasant smile,  
For he had caught on to that sender's style;  
And as dots and dashes came to his mind,  
He soon was not more than ten words behind.

Onward, still onward, at steady pace,  
The Plug surely was winning the race,  
And when a long special neared its end,  
He knew full well that the sender could send.

Sometimes ahead, sometimes in the rear,  
At last every word to him came clear.  
And when they got through, bear this in mind,  
The SENDER was fifteen words behind....

The above from 1935 "R9" magazine. Incidentally,  
a "Plug" is the name for a landline telegrapher.

## JAPAN INTERNATIONAL DX CONTEST



ANNOUNCING  
The 1st Annual "59 Pluggs"  
JAPAN INTERNATIONAL DX CONTEST  
November 11-12, 1988

The monthly DX magazine called FIVE NINE "59", has the great pleasure of announcing to worldwide amateur stations that a new DX Contest will be held in November 1988. The Five Nine was established in 1985 as a JAR's magazine by DXers for all DXers in Japan. The purpose of this contest is to accelerate the activity of radio amateurs in Japan and to establish as many contacts as possible between Japan and worldwide stations during the contest periods.

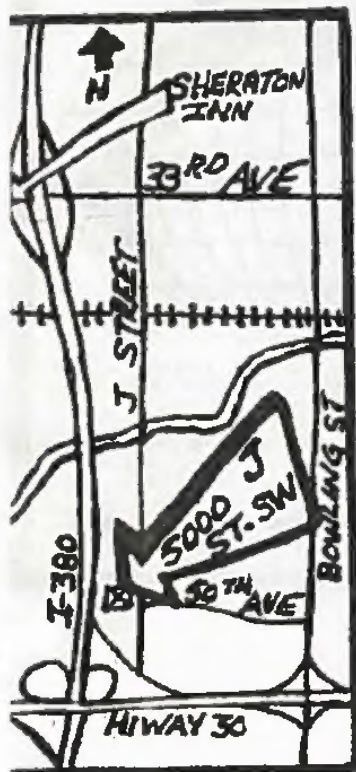
THANKS TO THESE NEWSLETTER  
CONTRIBUTORS!!!!

WB8ZAL, K06VB, K2OC, N0BH,  
W4NIN, AND K0VZR.

the guys



# CEDAR VALLEY Amateur Radio Club PROUDLY PRESENTS



**TOM ZUBER, WNØDRC**  
GENERAL CHAIRMAN  
319-362-3602 Home

## SUMMERFEST '88

**AUGUST 13 & 14, 1988**  
Saturday & Sunday  
in the air-conditioned  
**TEAMSTERS HALL**  
5000 J STREET SW  
EXIT 17 - I-380 (33rd Ave.)  
**SATURDAY**  
8:00 A.M. to 5:00 P.M.  
**SUNDAY**  
8:00 A.M. to 3:00 P.M.

**FLEA MARKET**  
• TAILGATING  
• FCC EXAMS  
• Ladies & Children Programs  
• Live Ham & Computer Demos  
• Seminars — Ham & Computer  
• Door Prizes  
• Banquet — Saturday Nite  
• Special Food/Hotel Rates

**ADMISSION:**  
**ADULTS:**  
\$3.00 Advance, \$4.00 Door  
TICKET ALLOWS YOU  
TO TAILGATE — FREE!!  
**Under 12 FREE**  
Tickets Good for both days

**WELCOME**  
to Cedar Rapids  
from W6GQ

Talk-in  
146.52 146.16/.76

### Advance Registration for SummerFest '88

Registration and Flea Market permits valid 2 days.

NAME \_\_\_\_\_ CALL \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\_\_\_\_\_ Adult Advance Registration (\$4.00 at Door) x \$3.00 ..... \$ \_\_\_\_\_  
     — Children under 12 - FREE

\_\_\_\_\_ Banquet — Saturday Nite Buffet at Sheraton Inn x \$11.00/person ..... \$ \_\_\_\_\_  
     — tax and tip included

\_\_\_\_\_ Flea Market 8' Table x \$8.00 (\$10.00 with electricity) ..... \$ \_\_\_\_\_

Total Payable to: Cedar Valley Amateur Radio Club ..... \$ \_\_\_\_\_

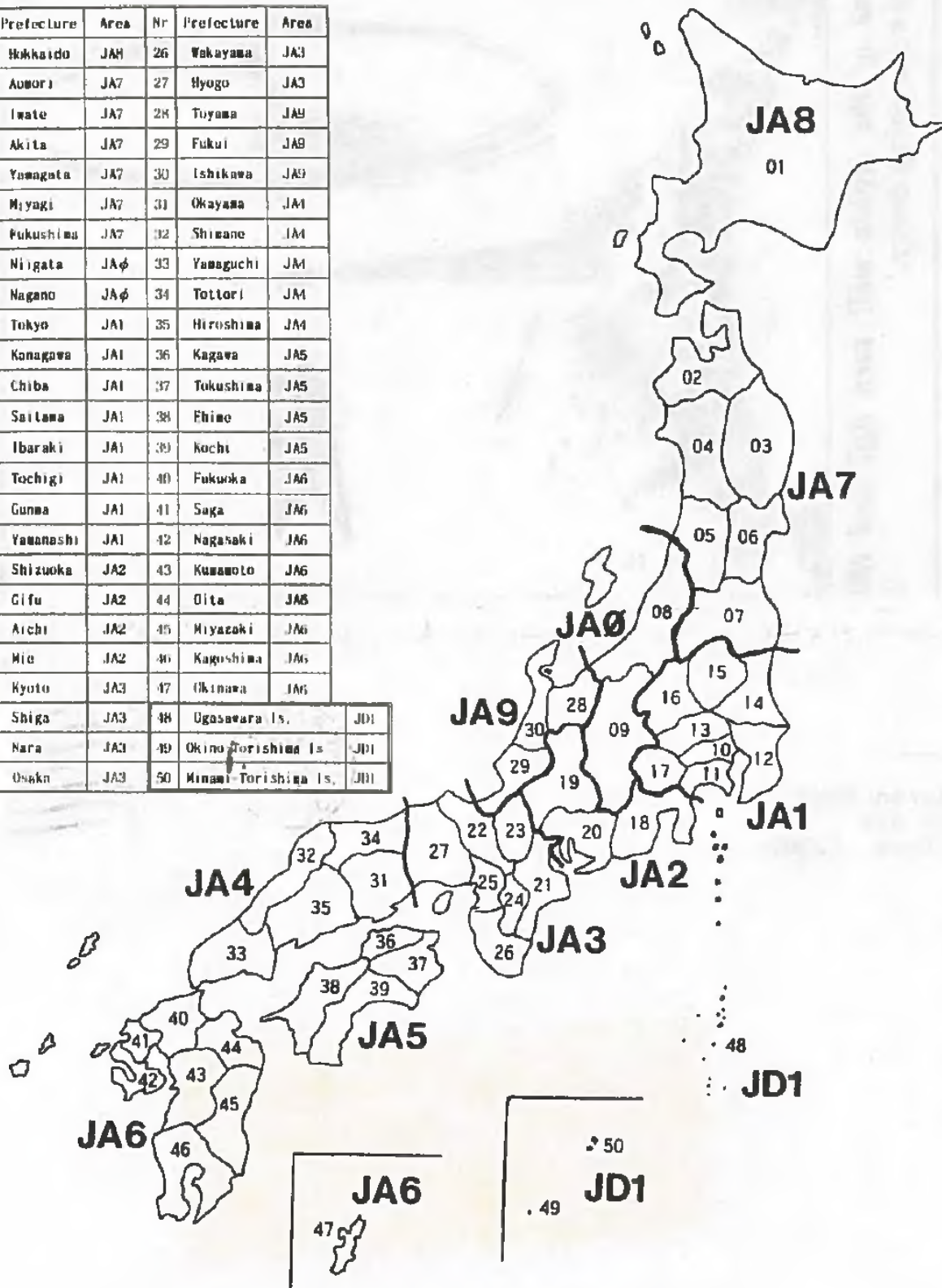
You must have an admission ticket  
to display in the Flea Market and  
Tailgating Area.

MAIL (with S.A.S.E. please):  
SummerFest '88  
2139 Randolf Rd.  
Marion, Iowa 52302



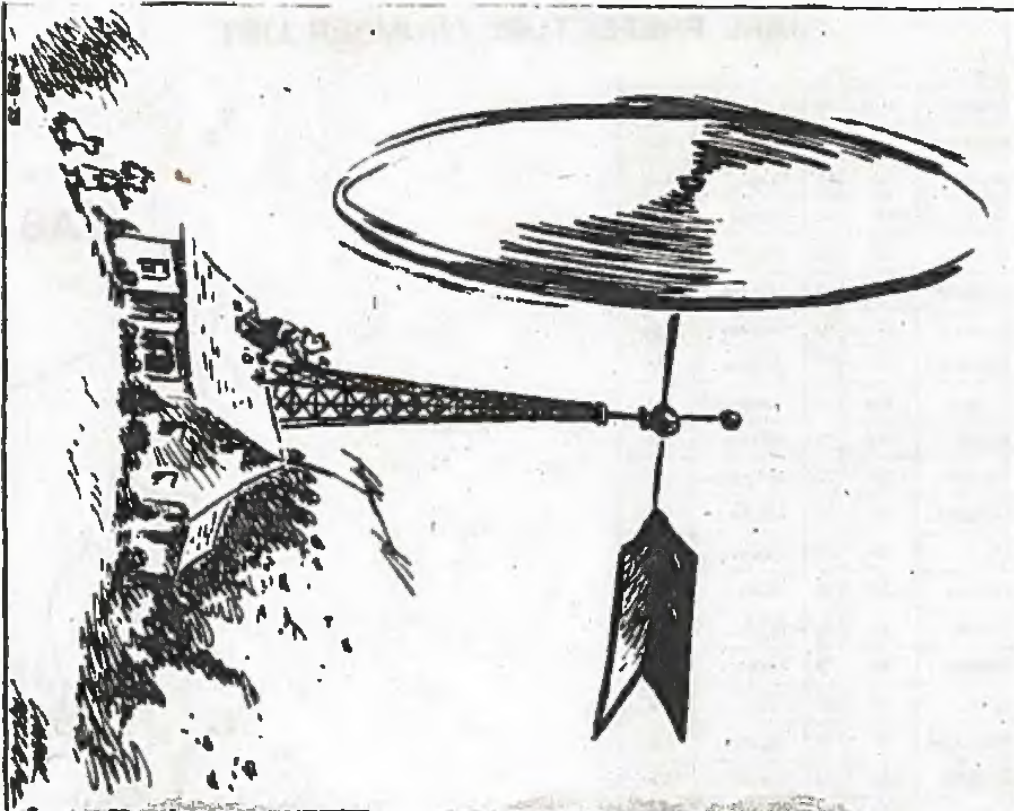
# JARL PREFECTURE / NUMBER LIST

Nr	Prefecture	Area	Nr	Prefecture	Area
01	Hokkaido	JA8	26	Wakayama	JA3
02	Aomori	JA7	27	Hyogo	JA3
03	Iwate	JA7	28	Toyama	JA9
04	Akita	JA7	29	Fukui	JA9
05	Yamagata	JA7	30	Ishikawa	JA9
06	Miyagi	JA7	31	Okayama	JA1
07	Fukushima	JA7	32	Shimane	JA1
08	Niigata	JA6	33	Yamaguchi	JA1
09	Nagano	JA6	34	Tottori	JA1
10	Tokyo	JA1	35	Hiroshima	JA1
11	Kanagawa	JA1	36	Kagawa	JA5
12	Chiba	JA1	37	Tokushima	JA5
13	Saitama	JA1	38	Ehime	JA5
14	Ibaraki	JA1	39	Kochi	JA5
15	Tochigi	JA1	40	Fukuoka	JA6
16	Gunma	JA1	41	Saga	JA6
17	Yamanashi	JA1	42	Nagasaki	JA6
18	Shizuoka	JA2	43	Kumamoto	JA6
19	Gifu	JA2	44	Oita	JA6
20	Aichi	JA2	45	Miyazaki	JA6
21	Mie	JA2	46	Kagoshima	JA6
22	Kyoto	JA3	47	Okinawa	JA6
23	Shiga	JA3	48	Ugasawara Is.	JD1
24	Nara	JA3	49	Okino-Torishima Is.	JD1
25	Osaka	JA3	50	Miyami-Torishima Is.	JD1



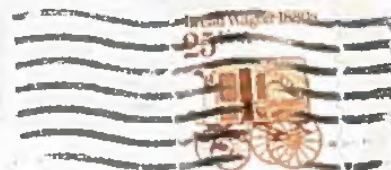


'None of the lights will turn off, and the clocks are going crazy.'



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